

# SUNMAN

# eArche®

12 v Boating , Caravan  
and Camping Applications

High-efficiency  
Customization  
Ultra-light  
Flexible  
Aesthetics

5  
YEAR

Warranty

## Electrical Characteristics

STC	SMF180M-4X10U	SMF160M-6X06U	SMF105M-4X06U
Maximum Power (P <sub>max</sub> )	180	160	105
Maximum Power Voltage (V <sub>mp</sub> )	21.4	19.1	12.7
Maximum Power Current (I <sub>mp</sub> )	8.42	8.38	8.27
Open-circuit Voltage (V <sub>oc</sub> )	26.0	23.0	15.4
Short-circuit Current (I <sub>sc</sub> )	8.88	8.88	8.73
Module Efficiency (%)	16.4	15.8	15.5
Operating Temperature (°C)	-40 °C to 85 °C		
Maximum System Voltage	600 V DC (IEC)		
Maximum Series Fuse Rating	20 A		
Application Class	Class A		
Power Tolerance	0/+5 W		

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM=1.5.

## Mechanical Characteristics

Product	SMF180M-4X10U	SMF160M-6X06U	SMF105M-4X06U
Solar Cell	Mono (6 inches)	Mono (6 inches)	Mono (6 inches)
No. of Cells	40 (4×10)	36 (6×06)	24(4×06)
Module Dimensions	1661×660×2 mm	1026×990×2 mm	1026×660×2 mm
Weight	2.9 kgs	2.4 kgs	1.8 kgs
Backsheet	White		
J-box	IP 68 rated (each j-box have one bypass diodes)		
Output Cables	Photovoltaic technology cable 4.0 mm <sup>2</sup> , (+)150 / (-)450 mm		
Connector	MC4 compatible		

[www.sunman-energy.com](http://www.sunman-energy.com)





**SUNMAN**  
SOLAR SPECIALIST

eArche applied to caravan market  
eArche applied to yacht applications  
eArche applied to RV market  
eArche applied to train



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**CAUTION:** Read installation manual before using the product.

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